

AMENDMENTS TO CLAIMS:

This listing of claims will replace all prior versions and listing of claims in the above-referenced application.

Listing of Claims:

1. (Currently Amended) A method of reversing a communication path between a first volume on a first storage device and a second volume on a second storage device, comprising:

suspending communication between the first and second volumes while maintaining operations for other volumes of the storage devices;

causing the first volume to change from a source volume to a destination volume without destroying the first volume;

causing the second volume to change from a destination volume to a source volume without destroying the second volume; and

after causing the first volume to change from a source volume to a destination volume and causing the second volume to change from a destination volume to a source volume, initiating a synchronization of volumes to cause data to be copied from the source volume to the destination volume; and

prior to completion of the synchronization, resuming communication between the first and second volumes and resuming data access operations to the first and second volumes ~~after causing the first volume to change from a source volume to a destination volume and causing the second volume to change from a destination volume to a source volume and prior to synchronizing the volumes,~~ wherein, in response to a data access operation to the second volume and valid data for the data access operation existing only on the first volume, the data access

operation to the second volume is satisfied by accessing data from the first volume and wherein,
in response to a write of particular data to the second volume, the particular data is transferred
from the second volume to the first volume irrespective of whether the synchronization is
complete.

2. (Original) A method, according to claim 1, wherein causing the first volume to change from a source volume to a destination volume includes modifying a table of the first storage device

3. (Original) A method, according to claim 2, wherein causing the second volume to change from a source volume to a destination volume includes modifying a table of the second storage device.

4. (Original) A method, according to claim 1, wherein suspending communication includes setting the first volume to a not ready state.

5. (Original) A method, according to claim 4, wherein resuming communication includes setting the second volume to a ready state.

6. (Original) A method, according to claim 1, further comprising:

returning a result indicating successfully reversing the communication path.

7. (Currently Amended) A method of managing volumes on storage devices, comprising:

receiving a command requesting reversal of a communication path between a first volume on a first storage device and a second volume on a second storage device;

suspending communication between the first and second volumes while maintaining operations for other volumes of the storage devices;

causing the first volume to change from a source volume to a destination volume without destroying the first volume;

causing the second volume to change from a destination volume to a source volume without destroying the second volume; and

after causing the first volume to change from a source volume to a destination volume and causing the second volume to change from a destination volume to a source volume, initiating a synchronization of volumes to cause data to be copied from the source volume to the destination volume; and

prior to completion of the synchronization, resuming communication between the first and second volumes and resuming data access operations to the first and second volumes after causing the first volume to change from a source volume to a destination volume and causing the second volume to change from a destination volume to a source volume and prior to synchronizing the volumes, wherein, in response to a data access operation to the second volume and valid data for the data access operation existing only on the first volume, the data access operation to the second volume is satisfied by accessing data from the first volume and wherein, in response to a write of particular data to the second volume, the particular data is transferred from the second volume to the first volume irrespective of whether the synchronization is complete.

8. (Original) A method, according to claim 7, wherein the command is a single multihop, multiexecute command that causes operations to be performed on the first and second storage devices.

9. (Original) A method, according to claim 7, wherein causing the first volume to change from a source volume to a destination volume includes modifying a table of the first storage device.

10. (Original) A method, according to claim 9, wherein causing the second volume to change from a source volume to a destination volume includes modifying a table of the second storage device.

11. (Original) A method, according to claim 7, wherein suspending communication includes setting the first volume to a not ready state.

12. (Original) A method, according to claim 11, wherein resuming communication includes setting the second volume to a ready state.

13. (Original) A method, according to claim 7, further comprising:
returning a result indicating successfully reversing the communication path.

14. (Currently Amended) A computer program product that reverses a communication path between a first volume on a first storage device and a second volume on a second storage device, comprising:

executable code that suspends communication between the first and second volumes while maintaining operations for other volumes of the storage devices;

executable code that causes the first volume to change from a source volume to a destination volume without destroying the first volume;

executable code that causes the second volume to change from a destination volume to a source volume without destroying the second volume; and

executable code that initiates a synchronization of volumes to cause data to be copies from the source volume to the destination volume after causing the first volume to change from a source volume to a destination volume and causing the second volume to change from a destination volume to a source volume; and

executable code that resumes communication between the first and second volumes and resumes data access operations to the first and second volumes prior to completion of the synchronization ~~after the first volume changes from a source volume to a destination volume and the second volume changes from a destination volume to a source volume and prior to synchronizing the volumes,~~ wherein, in response to a data access operation to the second volume and valid data for the data access operation existing only on the first volume, the data access operation to the second volume is satisfied by accessing data from the first volume and wherein, in response to a write of particular data to the second volume, the particular data is transferred from the second volume to the first volume irrespective of whether the synchronization is complete.

15. (Original) A computer program product, according to claim 14, wherein executable code that causes the first volume to change from a source volume to a destination volume modifies a table of the first storage device

16. (Original) A computer program product, according to claim 15, wherein executable code that causes the second volume to change from a source volume to a destination volume modifies a table of the second storage device.

17. (Original) A computer program product, according to claim 14, wherein executable code that suspends communication sets the first volume to a not ready state.

18. (Original) A computer program product, according to claim 17, wherein executable code that resumes communication sets the second volume to a ready state.

19. (Original) A computer program product, according to claim 14, further comprising:
executable code that returns a result indicating successfully reversing the communication path.